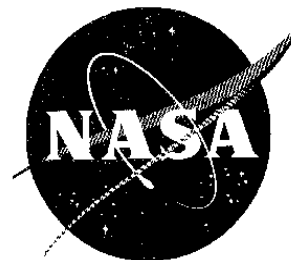


# NewsRelease



National Aeronautics and  
Space Administration

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## **NASA Langley is Going to AGU: 1999 Fall AGU Tip Sheet**

NASA Langley researchers will report on new atmospheric science discoveries and areas of exploration at the 1999 American Geophysical Union meeting in San Francisco starting the week of December 14. Details of scheduled papers and poster sessions follow:

### **Monthly Variations in Atmospheric Air Determined from Langley Satellite Instrument**

SAGE II instrument data show a strong seasonal cycle of exchange between tropospheric and stratospheric air. Paper presented by Waldo Rodriguez.

**Monday, December 13 at 8:30 - Moscone Center, Room 309, Session A11D**

### **Water Vapor in the Atmosphere: An Improved Model Possible**

Either the UARS Reference Model or SAGE II multi-year satellite observations or their combination could be more useful than the existing US Standard Atmosphere of CIRA model for water vapor. Paper presented by Er-Woon Chiou.

**Monday, December 13 at 8:45 - Moscone Center, Room 309, Session A11D**

### **Are Aerosol Levels Rising? New Insight Raises Questions Regarding Human Influence.**

An examination of atmospheric satellite data from three non volcanic-influenced periods, each showing different aerosol concentrations, addresses the question of whether background aerosol levels are rising. Invited paper presented by Dr. Larry W. Thomason.

**Tuesday, December 14 at 2:30 - Moscone Center, Room 309, Session A22E**

### **Exploring Why Aerosols Decay Faster in Models than Satellite Observations Indicate**

Comparisons of aerosol measurements show them to be in good agreement as to aerosol size before and after volcanic eruptions. However, data shows a faster decay rate than that observed by Langley's SAGE II satellite instrument. Paper presented by Dr. Glenn K. Yue.

**Tuesday, December 14 at 4:35 - Moscone Center, Room 309, Session A22E**

### **Measurements Compared for Accurate Depictions of Radiation and Aerosol Radiative Forcing**

Comparisons between measured and theoretical estimates of radiative fluctuations and aerosol radiative forcing over oceans are examined to ensure the accuracy of satellite-derived estimates of aerosol radiative forcing. Paper presented by Norman G. Loeb.

**Wednesday, December 15 at 4:30 - Moscone Center, Room 134, Session A32E I**

- more -

**The Mt. Pinatubo Eruption: Eight Years of Stratospheric Observations**

For the first time, ground-based, airborne, and spaceborne instruments provided nearly global observations of the initial development and long decay of a volcanic aerosol cloud. Invited paper presented by Dr. Larry W. Thomason.

**Thursday, December 16 at 1:30 - Moscone Center, Room 303, Session A42F**

**Poster Sessions**

**Tropical Clouds and Longwave Radiation:  
Preliminary Results from Satellite Observations**

Changes in tropical cloud systems influence outgoing radiation presented by Pi-Huan Wang.

**Monday, December 13 at 1:30 - Moscone Center, Hall D, Session A12B**

**Toward Understanding Uncertainties Affecting SAGE III Data Products**

A new simulator will model aspects of the SAGE III satellite experiment by Dr. Didier F.G. Rault.

**Monday, December 13 at 1:30 - Moscone Center, Hall D, Session A12B**

**Atmospheric Temperature Trends Corroborated between  
Surface and Satellite Measurements**

One year of data from Earth Radiation Budget Satellite (ERBS) presented by Dr. D. K. Pandey.

**Monday, December 13 at 1:30 - Moscone Center, Hall D, Session A12B**

**Students On-Line Atmospheric Research Program (SOLAR):  
Enhancing Science Education**

The Student On-Line Atmospheric Research (SOLAR) program presented by David C. Woods.

**Monday, December 13 at 1:30 - Moscone Center, Hall D, Session A12B**

**Calculations Show Aerosol Extinction Affected by Wavelength**

A new technique for determining the size distribution of aerosol particles by Gregory L. Schuster.

**Tuesday, December 14 at 8:30 - Moscone Center, Hall D, Session A12B**

**Workshop Enables Teacher Input for Standards Requirements**

NASA's Students Cloud Observation On-Line (S'COOL) presented by Carolyn J. Green.

**Thursday, December 16 at 1:30 - Moscone Center, Hall D, Session EP42A**

**Terra Data Available from the NASA Langley Atmospheric Sciences Data Center**

Observations from two new satellites presented by Jamie L. Smedsmo.

**Thursday, December 16 at 1:30 - Moscone Center, Hall D, Session U42A**

**Observations Reveal Surprising Amount of Ozone Found in Upper Mesosphere:  
Implications for the Ozone Deficit Problem**

A new technique for calculating mesosphere ozone levels presented by Dr. Martin G. Mlynczak.

**Thursday, December 16 at 1:30 - Moscone Center, Hall D, Session A42A**

**The Effects of Smoke from Large Scale Vegetation Fires**

Data from two large-scale fires are re-examined — presented by Dr. Paul W. Stackhouse, Jr.

**Friday, December 17 at 8:30 - Moscone Center, Hall D, Session A51C**

**Data Sets Available for Stratospheric Aerosol Research**

Vertical distribution of aerosol data and aerosol extinction presented by Nancy A. Ritchey.

**Friday, December 17 at 8:30 - Moscone Center, Hall D, Session A51C**

- end -

(For more information on these or other Atmospheric Science programs, please call the NASA Langley Research Center, Hampton, Va., at the numbers listed above.)